

ASDSF
20.2.4405



5129 N. Shirley St. Suite 100, Ruston, WA 98407

January 14, 2011

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 175, December 2010
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



1382190

Monthly Report 175, December 2010

Operable Unit 02

Asarco Tacoma Smelter Site

A. Actions taken to achieve compliance with the Consent Decree during the previous month.

1. Met with EPA on December 10th for coordination meeting.
2. Work with City of Tacoma on reimbursement for completion of construction of the sanitary sewer project.
3. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going maintenance continues.
4. Continued weekly site-inspection reports (see attached).
5. Maintained clean work area and road.
6. Remedial Action activities continued.
7. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. Two (2) Emerald Services workers
 - ii. One (1) Gibson Trucking worker
 - iii. One (1) Papé Material Handling worker
 - iv. One (1) Sound Delivery worker
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) Point Ruston worker
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:

B. Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from May-October, and in December, February, and April.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Outfall samples were collected in November in lieu of October. Samples results for December 2010 are attached.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 117 gallons per day on the LCRS. 4,682 gallons of leachate were hauled on December 30. A copy of the laboratory analysis for the shipment is attached (Arsenic 1.9 mg/L).
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring was conducted on December 27. Perimeter air monitoring was not conducted on the remaining days due to wet site conditions caused by the weather. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected in December are pending laboratory analysis and will be submitted with the January 2011 monthly report.
4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring (Exposure Evaluations) was not required in December.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:
 - Point Ruston, through Hydrometrics, is working on responses to comments received for the Temporary Cap Plan, Sequence of

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

Development and Occupancy Plan (SDOP), BNSF Excavation & RA Plan, Ruston Way SAP, and the Operations Maintenance, and Monitoring Plan. Hydrometrics submitted a draft temporary capping plan and specifications for discussion as a part of the SDOP. The discussion of this plan is on-going.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.
 - Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence along Ruston Way
 - Continued site-wide dust monitoring and control through site and access road watering, as needed
 - Continued air-monitoring program per CH&SP

D. Actions scheduled for the next six weeks.

1. Continue construction of public infrastructure. The sanitary sewer project was completed, tested and submitted for acceptance to the City of Tacoma, and Town of Ruston. Final LID formation is underway, with water and power scheduled as next phases.
2. Work on CH&SP air monitoring plan submittal to address recent EPA comments.
3. The deliverables specified in the BN Remedial Action Plan have been delivered to EPA for review. Upon approval of the Excavation and RA Plan excavation is scheduled to begin early next year.
4. Obtain final approvals from the Town of Ruston and the City of Tacoma for the road portion of the Master Infrastructure/LID project. The items

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

remaining are resolution of the City's concerns relative to Bore Hole 3 and the signing of mylars.

5. Continue to work on response to address EPA comments regarding Occupancy Plan Development, and submit a proposal for a Temporary Cap in compliance with the Consent Decree.
6. Discuss Monitoring Wells and overall CH&SP monitoring plan for Site
7. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan
8. Continue to work on response to EPA comments regarding the Point Ruston CC&Rs
9. Complete the ASARCO Dock Removal Project by DNR's contractor.
10. Begin shoreline armoring project through DNR.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities (not conducted during wet weather conditions when no work is underway.)

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID processes are ongoing.

Monthly Report 175, December 2010
Operable Unit 02
Asarco Tacoma Smelter Site

2. Point Ruston is coordinating with BNSF to secure a quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA and Point Ruston continue discussions regarding a proposed schedule modification.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues to work with MetroParks to incorporate the capping component into the Peninsula Park design. Point Ruston has responded to Metro Parks draft engineering analysis for the Peninsula Park site.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. The Washington Dept. of Natural Resources completed its demolition of the Asarco docks along the frontage of the site in late December. Point Ruston and DNR continue to discuss implementation of on-going cooperative efforts to complete the remaining in-water and shoreline armoring actions at the site.

Table 1. Summary of December 2010 Outfall Data for As, Cu, and Zn Compared to SOW Limit

| Location | As Conc. ppm | % of SOW Limit* | Cu Conc. ppm | % of SOW Limit* | Zn Conc. ppm | % of SOW Limit* |
|---------------|-----------------|--------------------|-----------------|--------------------|-----------------|--------------------|
| South Outfall | 0.106 | 21.28% | 0.052 | 10.40% | 0.052 | 10.40% |
| OSW2 | 0.049 | 9.76% | 0.016 | 3.20% | 0.002 | 0.40% |
| North Outfall | 0.024 | 4.80% | 0.032 | 6.40% | 0.026 | 5.20% |

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

ANALYTICAL SUMMARY REPORT

January 10, 2011

Point Ruston LLC
5219 N Shirley St Ste 100
Ruston, WA 98407-6599

Workorder No.: B11010118

Project Name: Tacoma Smelter Outfall Samples

Energy Laboratories Inc Billings MT received the following 15 samples for Point Ruston LLC on 1/4/2011 for analysis.

| Sample ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|-------------------|----------------|--------------|---------|--|
| B11010118-001 | TSM1210106, South | 12/06/10 10:57 | 01/04/11 | Aqueous | Metals by ICP/ICPMS, Total Metals Preparation by EPA 200.2 |
| B11010118-002 | TSM1210406, North | 12/06/10 13:20 | 01/04/11 | Aqueous | Same As Above |
| B11010118-003 | TSM1210206, OSW-2 | 12/06/10 10:58 | 01/04/11 | Aqueous | Same As Above |
| B11010118-004 | TSM1210413, North | 12/13/10 9:45 | 01/04/11 | Aqueous | Same As Above |
| B11010118-005 | TSM1210113, South | 12/13/10 10:01 | 01/04/11 | Aqueous | Same As Above |
| B11010118-006 | TSM1210213, OSW-2 | 12/13/10 10:02 | 01/04/11 | Aqueous | Same As Above |
| B11010118-007 | TSM1210420, North | 12/20/10 14:20 | 01/04/11 | Aqueous | Same As Above |
| B11010118-008 | TSM1210120, South | 12/20/10 13:45 | 01/04/11 | Aqueous | Same As Above |
| B11010118-009 | TSM1210220, OSW-2 | 12/20/10 13:46 | 01/04/11 | Aqueous | Same As Above |
| B11010118-010 | TSM1210427, North | 12/27/10 8:03 | 01/04/11 | Aqueous | Same As Above |
| B11010118-011 | TSM1210127, South | 12/27/10 8:22 | 01/04/11 | Aqueous | Same As Above |
| B11010118-012 | TSM1210227, OSW-2 | 12/27/10 8:19 | 01/04/11 | Aqueous | Same As Above |
| B11010118-013 | TSM0111403, North | 01/03/11 11:06 | 01/04/11 | Aqueous | Same As Above |
| B11010118-014 | TSM0111103, South | 01/03/11 11:43 | 01/04/11 | Aqueous | Same As Above |
| B11010118-015 | TSM0111203, OSW-2 | 01/03/11 11:44 | 01/04/11 | Aqueous | Same As Above |

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Cindy Rohrer
Inorganic Department Manager

Digitally signed by
Cindy Rohrer

Date: 2011.01.10 16:47:58 -07:00



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-001
Client Sample ID: TSM1210106, South

Report Date: 01/10/11
Collection Date: 12/06/10 10:57
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.065 | mg/L | | 0.005 | | E200.8 | 01/06/11 02:49 / jjw |
| Copper | 0.03 | mg/L | | 0.01 | | E200.8 | 01/06/11 02:49 / jjw |
| Zinc | 0.03 | mg/L | | 0.01 | | E200.8 | 01/06/11 02:49 / jjw |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-002
Client Sample ID TSM1210406, North

Report Date: 01/10/11
Collection Date: 12/06/10 13:20
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.020 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:10 / jjw |
| Copper | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:10 / jjw |
| Zinc | 0.01 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:10 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-003
Client Sample ID TSM1210206, OSW-2

Report Date: 01/10/11
Collection Date: 12/06/10 10:58
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.049 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:14 / jjw |
| Copper | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:14 / jjw |
| Zinc | ND | mg/L | | 0.01 | | E200.8 | 01/06/11 03:14 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-004
Client Sample ID TSM1210413, North

Report Date: 01/10/11
Collection Date: 12/13/10 09:45
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.025 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:18 / jjw |
| Copper | 0.04 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:18 / jjw |
| Zinc | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:18 / jjw |

Report
Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-005
Client Sample ID: TSM1210113, South

Report Date: 01/10/11
Collection Date: 12/13/10 10:01
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.148 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:22 / jjw |
| Copper | 0.08 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:22 / jjw |
| Zinc | 0.05 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:22 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-006
Client Sample ID: TSM1210213, OSW-2

Report Date: 01/10/11
Collection Date: 12/13/10 10:02
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.042 | mg/L | | 0.005 | | E200.8 | 01/05/11 16:22 / jjw |
| Copper | 0.01 | mg/L | | 0.01 | | E200.8 | 01/05/11 16:22 / jjw |
| Zinc | ND | mg/L | | 0.01 | | E200.8 | 01/05/11 16:22 / jjw |

Report Definitions: RL - Analyte reporting limit.
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-007
Client Sample ID TSM1210420, North

Report Date: 01/10/11
Collection Date: 12/20/10 14:20
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.023 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:26 / jjw |
| Copper | 0.04 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:26 / jjw |
| Zinc | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:26 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-008
Client Sample ID TSM1210120, South

Report Date: 01/10/11
Collection Date: 12/20/10 13:45
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.141 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:31 / jjw |
| Copper | 0.05 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:31 / jjw |
| Zinc | 0.04 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:31 / jjw |

Report
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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-009
Client Sample ID TSM1210220, OSW-2

Report Date: 01/10/11
Collection Date: 12/20/10 13:46
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.060 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:35 / jjw |
| Copper | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:35 / jjw |
| Zinc | ND | mg/L | | 0.01 | | E200.8 | 01/06/11 03:35 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-010
Client Sample ID: TSM1210427, North

Report Date: 01/10/11
Collection Date: 12/27/10 08:03
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.027 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:39 / jjw |
| Copper | 0.03 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:39 / jjw |
| Zinc | 0.06 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:39 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-011
Client Sample ID TSM1210127, South

Report Date: 01/10/11
Collection Date: 12/27/10 08:22
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.109 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:43 / jjw |
| Copper | 0.05 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:43 / jjw |
| Zinc | 0.09 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:43 / jjw |

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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-012
Client Sample ID: TSM1210227, OSW-2

Report Date: 01/10/11
Collection Date: 12/27/10 08:19
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.048 | mg/L | | 0.005 | | E200.8 | 01/06/11 03:47 / jjw |
| Copper | 0.01 | mg/L | | 0.01 | | E200.8 | 01/06/11 03:47 / jjw |
| Zinc | ND | mg/L | | 0.01 | | E200.8 | 01/06/11 03:47 / jjw |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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Gillette, WY 866-686-7175 • Rapid City, SD 888-672-1225 • College Station, TX 888-690-2218

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-013
Client Sample ID: TSM0111403, North

Report Date: 01/10/11
Collection Date: 01/03/11 11:06
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.025 | mg/L | | 0.005 | | E200.8 | 01/06/11 04:08 / jjw |
| Copper | 0.03 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:08 / jjw |
| Zinc | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:08 / jjw |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-014
Client Sample ID: TSM0111103, South

Report Date: 01/10/11
Collection Date: 01/03/11 11:43
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.069 | mg/L | | 0.005 | | E200.8 | 01/06/11 04:12 / jjw |
| Copper | 0.05 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:12 / jjw |
| Zinc | 0.05 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:12 / jjw |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



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LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client: Point Ruston LLC
Project: Tacoma Smelter Outfall Samples
Lab ID: B11010118-015
Client Sample ID: TSM0111203, OSW-2

Report Date: 01/10/11
Collection Date: 01/03/11 11:44
Date Received: 01/04/11
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-------|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 0.045 | mg/L | | 0.005 | | E200.8 | 01/06/11 04:16 / jjw |
| Copper | 0.02 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:16 / jjw |
| Zinc | 0.01 | mg/L | | 0.01 | | E200.8 | 01/06/11 04:16 / jjw |

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/10/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11010118

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--|--------|-------|--------|------|--|------------|-----|----------|------|
| Method: E200.8 | | | | | Analytical Run: ICPMS202-B_110105A | | | | |
| Sample ID: QCS - 101221A, 101222A Initial Calibration Verification Standard | | | | | 01/05/11 21:57 | | | | |
| Arsenic | 0.0506 | mg/L | 0.0050 | 101 | 90 | 110 | | | |
| Copper | 0.0524 | mg/L | 0.010 | 105 | 90 | 110 | | | |
| Zinc | 0.0518 | mg/L | 0.010 | 104 | 90 | 110 | | | |
| Method: E200.8 | | | | | Batch: 51438 | | | | |
| Sample ID: MB-51438 Method Blank | | | | | Run: ICPMS202-B_110105A 01/06/11 02:17 | | | | |
| Arsenic | ND | mg/L | 5E-05 | | | | | | |
| Copper | 0.0002 | mg/L | 3E-05 | | | | | | |
| Zinc | 0.0007 | mg/L | 0.0001 | | | | | | |
| Sample ID: LCS-51438 Laboratory Control Sample | | | | | Run: ICPMS202-B_110105A 01/06/11 02:25 | | | | |
| Arsenic | 0.486 | mg/L | 0.0050 | 97 | 85 | 115 | | | |
| Copper | 0.472 | mg/L | 0.010 | 94 | 85 | 115 | | | |
| Zinc | 0.484 | mg/L | 0.010 | 97 | 85 | 115 | | | |
| Sample ID: B11010055-001AMS3 Sample Matrix Spike | | | | | Run: ICPMS202-B_110105A 01/06/11 02:29 | | | | |
| Arsenic | 0.0450 | mg/L | 0.0050 | 9 | 70 | 130 | | | S |
| Copper | 1.83 | mg/L | 0.010 | 161 | 70 | 130 | | | S |
| Zinc | 0.558 | mg/L | 0.010 | 81 | 70 | 130 | | | |
| Sample ID: B11010055-001AMSD3 Sample Matrix Spike Duplicate | | | | | Run: ICPMS202-B_110105A 01/06/11 02:33 | | | | |
| Arsenic | 0.0293 | mg/L | 0.0050 | 5 | 70 | 130 | 42 | 20 | SR |
| Copper | 2.26 | mg/L | 0.010 | 245 | 70 | 130 | 21 | 20 | SR |
| Zinc | 0.552 | mg/L | 0.010 | 80 | 70 | 130 | 1.1 | 20 | |
| Method: E200.8 | | | | | Batch: R159529 | | | | |
| Sample ID: LRB Method Blank | | | | | Run: ICPMS202-B_110105A 01/05/11 12:34 | | | | |
| Arsenic | ND | mg/L | 3E-05 | | | | | | |
| Copper | ND | mg/L | 8E-05 | | | | | | |
| Zinc | 0.0007 | mg/L | 0.0001 | | | | | | |
| Sample ID: LFB Laboratory Fortified Blank | | | | | Run: ICPMS202-B_110105A 01/05/11 12:38 | | | | |
| Arsenic | 0.0512 | mg/L | 0.0050 | 102 | 85 | 115 | | | |
| Copper | 0.0546 | mg/L | 0.010 | 109 | 85 | 115 | | | |
| Zinc | 0.0530 | mg/L | 0.010 | 105 | 85 | 115 | | | |
| Sample ID: B11010195-001CMS Sample Matrix Spike | | | | | Run: ICPMS202-B_110105A 01/05/11 16:34 | | | | |
| Arsenic | 0.0503 | mg/L | 0.0050 | 101 | 70 | 130 | | | |
| Copper | 0.0534 | mg/L | 0.010 | 106 | 70 | 130 | | | |
| Zinc | 0.0589 | mg/L | 0.010 | 106 | 70 | 130 | | | |
| Sample ID: B11010195-001CMSD Sample Matrix Spike Duplicate | | | | | Run: ICPMS202-B_110105A 01/05/11 16:38 | | | | |
| Arsenic | 0.0491 | mg/L | 0.0050 | 98 | 70 | 130 | 2.4 | 20 | |
| Copper | 0.0520 | mg/L | 0.010 | 104 | 70 | 130 | 2.6 | 20 | |

Qualifiers:

RL - Analyte reporting limit.
R - RPD exceeds advisory limit.

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



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QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Point Ruston LLC

Report Date: 01/10/11

Project: Tacoma Smelter Outfall Samples

Work Order: B11010118

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|-------------------------------------|--------|-------|-------------------------------|------|-----------|-------------------------|-----|----------------|----------------|
| Method: E200.8 | | | | | | | | Batch: R159529 | |
| Sample ID: B11010195-001CMSD | | | Sample Matrix Spike Duplicate | | | Run: ICPMS202-B_110105A | | | 01/05/11 16:38 |
| Zinc | 0.0569 | mg/L | 0.010 | 102 | 70 | 130 | 3.5 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B11010118

Login completed by: Darwin C. Miller

Date Received: 1/4/2011

Reviewed by: BL2000\gmccartney

Received by: jlh

Reviewed Date: 1/5/2011

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 1.8°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

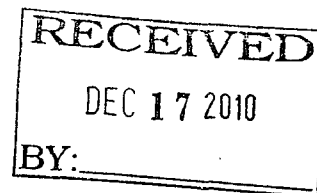
5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

| PROJ. NO | | PROJECT NAME | | NO. OF CONTAINERS | | REMARKS | |
|--------------------------|-------|-----------------|------|---|---------------|---|---|
| TACOMA SMELTER | | OUTFALL SAMPLES | | | | | |
| SAMPLERS: (Signature) | | | | | | | |
| DATE | STA # | TIME | COMP | GRAB | SAMPLE NUMBER | | |
| 12/10/10 | SOUTH | 10:57 | ✓ | | TSM1210100 | 1 | ✓ |
| 12/10/10 | NORTH | 13:20 | ✓ | | TSM1210400 | 1 | ✓ |
| 12/10/10 | OSW-2 | 10:58 | ✓ | | TSM1210200 | 1 | ✓ |
| 12/13/10 | NORTH | 9:45 | ✓ | | TSM1210413 | 1 | ✓ |
| 12/13/10 | SOUTH | 10:01 | ✓ | | TSM1210113 | 1 | ✓ |
| 12/13/10 | OSW-2 | 10:02 | ✓ | | TSM1210213 | 1 | ✓ |
| 12/20/10 | NORTH | 12:20 | ✓ | | TSM1210420 | 1 | ✓ |
| 12/20/10 | SOUTH | 13:45 | ✓ | | TSM1210120 | 1 | ✓ |
| 12/20/10 | OSW-2 | 13:46 | ✓ | | TSM1210220 | 1 | ✓ |
| 12/27/10 | NORTH | 08:03 | ✓ | | TSM1210427 | 1 | ✓ |
| 12/27/10 | SOUTH | 08:22 | ✓ | | TSM1210127 | 1 | ✓ |
| 12/27/10 | OSW-2 | 08:19 | ✓ | | TSM1210227 | 1 | ✓ |
| 1/3/11 | NORTH | 11:06 | ✓ | | TSM0111403 | 1 | ✓ |
| 1/3/11 | SOUTH | 11:43 | ✓ | | TSM0111103 | 1 | ✓ |
| 1/3/11 | OSW-2 | 11:44 | ✓ | | TSM0111203 | 1 | ✓ |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Lab | |
| (Signature) | | 1/3/11 (FedEx) | | (Signature) | | ENERGY | |
| Relinquished (Signature) | | Date/Time | | Received by: (Signature) | | Remarks | |
| (Signature) | | | | (Signature) | | | |
| Relinquished (Signature) | | Date/Time | | Received for Laboratory by: (Signature) | | Date/Time | |
| (Signature) | | | | (Signature) | | 1-4-11 9:10 | |
| | | | | | | Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter | |
| | | | | | | Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | |
| | | | | | | Signature | |



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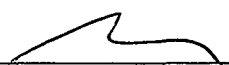
12/15/2010

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 11/30/2010
Spectra Project: 2010110589

| <u>Client ID</u> | <u>Spectra #</u> | <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> | <u>Matrix</u> | <u>Date Sampled</u> |
|------------------|------------------|----------------|---------------|--------------|---------------|---------------|---------------------|
| 8230592 | 1 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230592 | 1 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230591 | 2 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230591 | 2 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230590 | 3 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230590 | 3 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/12/2010 |
| 8230589 | 4 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230589 | 4 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230588 | 5 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230588 | 5 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230587 | 6 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230587 | 6 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230585 | 7 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |
| 8230585 | 7 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |
| 8230584 | 8 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |
| 8230584 | 8 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |

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Steve Hibbs, Laboratory Manager

a8/scj



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12/15/2010

Point Ruston
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Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 11/30/2010
Spectra Project: 2010110589

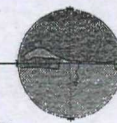
| <u>Client ID</u> | <u>Spectra #</u> | <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> | <u>Matrix</u> | <u>Date Sampled</u> |
|------------------|------------------|----------------|---------------|--------------|---------------|---------------|-------------------------|
| 8230583 | 9 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |
| 8230583 | 9 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/16/2010 |
| 8230582 | 10 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230582 | 10 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230581 | 11 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230581 | 11 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230580 | 12 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230580 | 12 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/17/2010 |
| 8230586 | 13 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230586 | 13 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/15/2010 |
| 8230579 | 14 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |
| 8230579 | 14 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |
| 8230578 | 15 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |
| 8230578 | 15 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |
| 8230577 | 16 | Arsenic | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |
| 8230577 | 16 | Lead | < 0.05 | µg/m3 | SW846 6010B | Filter | 11/29/2010 |

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

2010110589

| PROJ. NO | | PROJECT NAME | | NO. OF CONTAINERS | | REMARKS | |
|----------------------|---------|----------------------------|------|-------------------|---------------|---------|---|
| AIR MONITORING | | POINT RUSTON, LLC (HI-VOL) | | | | | |
| SAMPLERS (Signature) | | | | | | | |
| DATE | STA # | TIME | COMP | GRAB | SAMPLE NUMBER | | |
| 11/12/10 | SG | | ✓ | | 8230592 | 1 | ✓ |
| 11/12/10 | OCF-VI | | ✓ | | 8230591 | 1 | ✓ |
| 11/12/10 | OCF-NW | | ✓ | | 8230590 | 1 | ✓ |
| 11/15/10 | SG | | ✓ | | 8230589 | 1 | ✓ |
| 11/15/10 | OCF-VI | | ✓ | | 8230588 | 1 | ✓ |
| 11/15/10 | OCF-NW | | ✓ | | 8230587 | 1 | ✓ |
| 11/16/10 | SG | | ✓ | | 8230585 | 1 | ✓ |
| 11/16/10 | OCF-VI | | ✓ | | 8230584 | 1 | ✓ |
| 11/16/10 | OCF-NW | | ✓ | | 8230583 | 1 | ✓ |
| 11/17/10 | SG | | ✓ | | 8230582 | 1 | ✓ |
| 11/17/10 | OCF-VI | | ✓ | | 8230581 | 1 | ✓ |
| 11/17/10 | OCF-NW | | ✓ | | 8230580 | 1 | ✓ |
| 11/15/10 | CONTROL | | | ✓ | 8230586 | 1 | ✓ |
| 11/29/10 | SG | | ✓ | | 8230579 | 1 | ✓ |
| 11/29/10 | OCF-VI | | ✓ | | 8230578 | 1 | ✓ |

| | | | | |
|--------------------------|----------------|---|-----------|---|
| Relinquished (Signature) | Date/Time | Received by: (Signature) | Lab | Shipped via: FedEx, UPS or Other <u>DROP OFF</u> |
| <i>[Signature]</i> | 11/30/10 11:46 | <i>[Signature]</i> TIM R. | | Air Bill # |
| Relinquished (Signature) | Date/Time | Received by: (Signature) | Remarks | |
| <i>[Signature]</i> TIM R | 11-30-10 1:42 | <i>[Signature]</i> Marie Holt | | |
| Relinquished (Signature) | Date/Time | Received for Laboratory by: (Signature) | Date/Time | Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter |
| | | | | |

Split Samples:

[] Accepted [] Declined

Signature

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

7010110580



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12/15/2010

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Sample Matrix: Filter
Date Sampled: 12/02/2010
Date Received: 12/13/2010
Spectra Project: 2010120320

| <u>Client ID</u> | <u>Spectra #</u> | <u>Analyte</u> | <u>Result</u> | <u>Units</u> | <u>Method</u> |
|------------------|------------------|----------------|---------------|--------------|---------------|
| 8230576 | 1 | Arsenic | < 0.05 | µg/m3 | SW846 6010B |
| 8230576 | 1 | Lead | < 0.05 | µg/m3 | SW846 6010B |
| 8230575 | 2 | Arsenic | < 0.05 | µg/m3 | SW846 6010B |
| 8230575 | 2 | Lead | < 0.05 | µg/m3 | SW846 6010B |
| 8230574 | 3 | Arsenic | < 0.05 | µg/m3 | SW846 6010B |
| 8230574 | 3 | Lead | < 0.05 | µg/m3 | SW846 6010B |

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager

a7/scj

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Phone: 253-752-2185 Fax: 253-752-7083

7010120300

| PROJ. NO | | PROJECT NAME | | NO. OF CONTAINERS | | REMARKS | | | | | | | | | | | | | | | | | | | |
|--------------------------|--------|--------------------------|-----------|-------------------|-----------------------|---|------|--|-----------|--|--|---|--|--|--|--|--|--|--|-------------------------------|--|---|--|-----------|--|
| AIR MONITORING | | POINT RUSTON, LLC HI-VOL | | | | | | | | | | | | | | | | | | | | | | | |
| SAMPLERS: (Signature) | | | | | | | | | | | | | | | | | | | | | | | | | |
| DATE | STA # | TIME | COMP | GRAB | SAMPLE NUMBER | | | | | | | | | | | | | | | | | | | | |
| 12/2/10 | SG | | ✓ | | 8230576 | 1 | ✓ | | | | | | | | | | | | | | | | | | |
| 12/2/10 | OCF-VI | | ✓ | | 8230575 | 1 | ✓ | | | | | | | | | | | | | | | | | | |
| 12/2/10 | OCF-NW | | ✓ | | 8230574 | 1 | ✓ | | | | | | | | | | | | | | | | | | |
| 12/13/10 | | | | | HI-VOLUME SAMPLER LOG | 1 | PAGE | | | | | | | | | | | | | C.F.M DATA FOR LISTED FILTERS | | | | | |
| Relinquished (Signature) | | | Date/Time | | | Received by: (Signature) | | | Lab | | | Shipped via: FedEx, UPS or Other <u>DROP OFF</u> | | | | | | | | | | | | | |
| Relinquished (Signature) | | | Date/Time | | | Received by: (Signature) | | | Remarks | | | | | | | | | | | | | | | | |
| Relinquished (Signature) | | | Date/Time | | | Received for Laboratory by: (Signature) | | | Date/Time | | | Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter | | | | | | | | | | | | | |
| COC Form - 4/04 | | | | | | | | | | | | | | | | | | | | PAGE 1 of 1 | | Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined | | Signature | |



ANALYTICAL SUMMARY REPORT

December 08, 2010

Point Ruston LLC
5219 N Shirley St Ste 100
Ruston, WA 98407-6599

Workorder No.: B10120097

Project Name: Tacoma Smelter OCF Leachate Tank

Energy Laboratories Inc received the following 1 sample for Point Ruston LLC on 12/1/2010 for analysis.

| Sample ID | Client Sample ID | Collect Date | Receive Date | Matrix | Test |
|---------------|------------------|----------------|--------------|---------|---|
| B10120097-001 | TSM111029 | 11/29/10 15:40 | 12/01/10 | Aqueous | Metals by ICP, Total Metals Preparation by EPA 200.2 |

This report was prepared by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Cindy Rohrer
Inorganic Department Manager

Digitally signed by
Cindy Rohrer

Date: 2010.12.08 17:01:55 -07:00



LABORATORY ANALYTICAL REPORT

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank
Lab ID: B10120097-001
Client Sample ID: TSM111029

Report Date: 12/08/10
Collection Date: 11/29/10 15:40
Date Received: 12/01/10
Matrix: Aqueous

| Analyses | Result | Units | Qualifiers | RL | MCL/ QCL | Method | Analysis Date / By |
|----------------------|--------|-------|------------|-----|-------------|--------|----------------------|
| METALS, TOTAL | | | | | | | |
| Arsenic | 1.9 | mg/L | D | 0.3 | | E200.7 | 12/03/10 20:43 / tao |

Report Definitions:
RL - Analyte reporting limit.
QCL - Quality control limit.
D - RL increased due to sample matrix.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Point Ruston LLC
Project: Tacoma Smelter OCF Leachate Tank

Report Date: 12/08/10
Work Order: B10120097

| Analyte | Result | Units | RL | %REC | Low Limit | High Limit | RPD | RPDLimit | Qual |
|--------------------------------------|--|-------|-------|------|-----------|------------|----------------------------------|----------|----------------|
| Method: E200.7 | | | | | | | Analytical Run: ICP201-B_101203A | | |
| Sample ID: ICV | Continuing Calibration Verification Standard | | | | | | | | 12/03/10 11:28 |
| Arsenic | 2.48 | mg/L | 0.10 | 99 | 95 | 105 | | | |
| Method: E200.7 | | | | | | | Batch: 50799 | | |
| Sample ID: MB-50799 | Method Blank | | | | | | | | 12/03/10 20:32 |
| Arsenic | ND | mg/L | 0.30 | | | | | | |
| Sample ID: LCS-50799 | Laboratory Control Sample | | | | | | | | 12/03/10 20:35 |
| Arsenic | 0.477 | mg/L | 0.064 | 95 | 85 | 115 | | | |
| Sample ID: B10120123-001AMS3 | Sample Matrix Spike | | | | | | | | 12/03/10 21:10 |
| Arsenic | 0.464 | mg/L | 0.064 | 93 | 70 | 130 | | | |
| Sample ID: B10120123-001AMS3D | Sample Matrix Spike Duplicate | | | | | | | | 12/03/10 21:14 |
| Arsenic | 0.469 | mg/L | 0.064 | 94 | 70 | 130 | 1.2 | 20 | |

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

Workorder Receipt Checklist



B10120097

Login completed by: Darwin C. Miller

Date Received: 12/1/2010

Reviewed by: BL2000\kmcDonald

Received by: akl

Reviewed Date: 12/2/2010

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 9.8°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

None

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

| | | | | | | | |
|---------------------------|----------|-------------------|----------------|-------------------|---|--|---|
| PROJ. NO | | PROJECT NAME | | NO. OF CONTAINERS | | REMARKS | |
| TACOMA SMELTER | | OCF-LEACHATE TANK | | | | | |
| SAMPLERS: (Signature) | | J. [Signature] | | | | | |
| DATE | STA# | TIME | COMP | GRAB | SAMPLE NUMBER | | |
| 11/29/10 | Leachate | 15:40 | ✓ | ✓ | TSM 111029 | 1 | ✓ |
| | | | | | | 81012-0017-001 PLEASE EMAIL RESULTS TO: TIM@POINTRUSTON.COM | |
| | | | | | | THANK YOU | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Relinquished (Signature) | | | Date/Time | | Received by: (Signature) | | Lab |
| [Signature] | | | 11/30/10 12:00 | | [Signature] | | ENERGY |
| Relinquished (Signature) | | | Date/Time | | Received by: (Signature) | | Remarks |
| [Signature] | | | 11/30/10 FEDEX | | [Signature] | | |
| Relinquished (Signature) | | | Date/Time | | Received for Laboratory by: (Signature) | | Date/Time |
| [Signature] | | | | | | | Enclosed: |
| | | | | | | | <input type="checkbox"/> Parameter List with DTLs |
| | | | | | | | <input type="checkbox"/> Cover Letter |
| Split Samples: | | | | | | Signature | |
| [] Accepted [] Declined | | | | | | | |

9.8° ON 16
Fed Ex EXP
Seals on bottles
AT 12:00 12/1/10 11:00



Weekly Site Inspection Report No. 2010-1226

Week of: 12/26/2010 – 01/01/2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|------------------------------------|------------------|---|---|--------------|---|--|
| Gates: | | | | | | |
| South (electric) | G | F | P | Y | N | Still some squeaks. Needs general maintenance. |
| Cooling Pond | G | F | P | Y | N | |
| Peninsula | G | F | P | Y | N | |
| 54 th Street (electric) | G | F | P | Y | N | |
| Signage: | | | | | | |
| Gates | G | F | P | Y | N | |
| Perimeter | G | F | P | Y | N | |
| Safety | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Public Streets: | | | | | | |
| Ruston Way | G | F | P | Y | N | |
| 51 st & Gallagher | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| BMPs: | | | | | | |
| Berms | G | F | P | Y | N | |
| Waddles | G | F | P | Y | N | |
| Silt Fence | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | See Notes |
| Strom drains clean: | | | | | | |
| Lower Site | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| Stockpiles: | | | | | | |
| Envirotac II | G | F | P | Y | N | |
| Plastic | G | F | P | Y | N | |
| Packed | G | F | P | Y | N | |
| Grass | G | F | P | Y | N | |
| Dust: | | | | | | Wet soil conditions |
| Traffic areas | G | F | P | Y | N | |
| Excavation area | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Fencing: | | | | | | |
| Site Perimeter | G | F | P | Y | N | See Notes |
| Zone Separation | G | F | P | Y | N | Maintaining outer Exclusion perimeter (preventing access to inner clean areas) |
| (Other) | G | F | P | Y | N | |
| Cameras: | | | | | | |
| Stack Hill | G | F | P | Y | N | |
| Lower Site | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1226
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|---|------------------|---|---|--------------|---|--------------------------------------|
| Health & Safety Plans: Site Superintendant Construction Super. Other | G | F | P | Y | N | Preparing response to comments |
| | G | F | P | Y | N | |
| | G | F | P | Y | N | Revising Appendix G (Air Monitoring) |

G=Good F=Fair P=Poor Y=Yes N=No

| | |
|---------------------|--|
| Misc. notes: | Cooling Pond: Tampering with Cooling Pond pump. Electrical panel found open & breaker turned off on Monday. Turned back on and installed lock on panel. (Malicious Mischief reported) |
| | Fencing: Thursday - Site perimeter fence damaged by vehicle about 250' S. of tunnel due to speed too fast for icy conditions. Fence still intact, but damaged. Silt fence also damaged. To be repaired when conditions are safe for workers. (Hit & Run report declined by police.) |
| | BMP's: High winds buckled a section of swale liner near viewpoint on Stack Hill. Repaired 12/30/10. |
| | |
| | |

Air Monitoring:

| Day of Week | Hi-Vol Y/N | Personal Y/N | Air Monitoring Notes |
|-------------|------------|--------------|---|
| Sun 26 | N | N | No RA activity. Wet Conditions. |
| Mon 27 | Y | N | Light Remediation Activity along vacated section of 52 nd St to make long term clean staging area for pump truck to access OCF leachate storage tank. Wet Soil Conditions. (Back hoe / Dump Truck) |
| Tue 28 | N | N | No RA activity. Wet Conditions. |
| Wed 29 | N | N | No RA activity. Wet Conditions. |
| Thu 30 | N | N | No RA activity. Wet/Freezing Conditions. |
| Fri 31 | N | N | No RA activity. Wet/Freezing Conditions. |
| Sat 1 | N | N | No RA activity. Wet/Freezing Conditions. |

WEATHER:

| Day of Week | (LOW/HIGH) | Summary of Weather Conditions |
|-------------|---|-------------------------------|
| Sun 26 | 37°/45°; Wind SSW 1-2mph(am) 5-10mph (10:00-24:00)/Gust 22mph (12:00-14:00); Precipitation (14:00-16:00 & 24:00) 0.32" | |
| Mon 27 | 37°/47°; Wind S 5-10mph (24:00-13:00) Calm (13:00-23:00)/Gust 16mph (23:50); Precipitation (00:00-03:00 & 15:00-20:00) .52" | |
| Tue 28 | 39°/47°; Wind SSW 4-10mph (Calm 11:00-13:00) NNE 4-10mph (14:30-24:00)/Gust 18mph (01:45); No Precipitation | |
| Wed 29 | 32°/41°: Wind S 1-6mph (sporadic)/Gust 10mph (01:00 & 22:00); Precipitation (14:00-16:00) .12" | |
| Thu 30 | 25°/36°; Wind NNE 3-9mph (00:00-17:00) Calm (17:00-24:00)/Gust 13mph (01:00); No Precipitation | |
| Fri 31 | 21°/32°; Wind S Calm; No Precipitation | |
| Sat 1 | 24°/36°; Wind S Calm; No Precipitation | |

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 01/03/2011

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2010 - 1205

Week of: 12/05 – 12/11, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|------------------------------------|------------------|---|---|--------------|---|--|
| Gates: | | | | | | |
| South (electric) | G | F | P | Y | N | Needs general maintenance (Lube/Alignment/Adjustment, etc) |
| Cooling Pond | G | F | P | Y | N | |
| Peninsula | G | F | P | Y | N | |
| 54 th Street (electric) | G | F | P | Y | N | Gate stopped working 11/09 (See Notes) |
| Signage: | | | | | | |
| Gates | G | F | P | Y | N | |
| Perimeter | G | F | P | Y | N | |
| Safety | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Public Streets: | | | | | | |
| Ruston Way | G | F | P | Y | N | |
| 51 st & Gallagher | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| BMPs: | | | | | | |
| Berms | G | F | P | Y | N | |
| Waddles | G | F | P | Y | N | |
| Silt Fence | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Strom drains clean: | | | | | | |
| Lower Site | G | F | P | Y | N | See Notes |
| Stack Hill | G | F | P | Y | N | |
| Stockpiles: | | | | | | |
| Envirotac II | G | F | P | Y | N | |
| Plastic | G | F | P | Y | N | |
| Packed | G | F | P | Y | N | |
| Grass | G | F | P | Y | N | |
| Dust: | | | | | | Wet soil conditions |
| Traffic areas | G | F | P | Y | N | |
| Excavation area | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Fencing: | | | | | | |
| Site Perimeter | G | F | P | Y | N | |
| Zone Separation | G | F | P | Y | N | Maintaining outer Exclusion perimeter (preventing access to inner clean areas) |
| (Other) | G | F | P | Y | N | |
| Cameras: | | | | | | |
| Stack Hill | G | F | P | Y | N | |
| Lower Site | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010 - 1205
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|---|------------------|---|---|--------------|---|--------------------------------|
| Health & Safety Plans: Site Superintendant Construction Super. Other | | | | | | Preparing response to comments |
| | G | F | P | Y | N | |
| | G | F | P | Y | N | |
| | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

| |
|--|
| Misc. notes: Gates: South gate runs a little rough and squeaks. Needs general maintenance to prevent break down. |
| Gates: 54 th Street Gate stopped working on night of 12/09. Short days result in lack of solar panel charge. Plugged in backup charger / works fine 12/10. |
| Storm drains clean: Channeled OCF storm water to OCF pond. Previous LID work altered drainage on surface. |
| Fencing: Rolling up extra orange fencing and storing for winter (in progress). Maintaining outer perimeter of Exclusion Zone. |

Air Monitoring:

| Day of Week | | Hi-Vol Y/N | Personal Y/N | Air Monitoring Notes |
|-------------|----|---------------|-----------------|---------------------------------|
| Sun | 5 | N | N | No RA activity. Wet Conditions. |
| Mon | 6 | N | N | No RA activity. Wet Conditions. |
| Tue | 7 | N | N | No RA activity. Wet Conditions. |
| Wed | 8 | N | N | No RA activity. Wet Conditions. |
| Thu | 9 | N | N | No RA activity. Wet Conditions. |
| Fri | 10 | N | N | No RA activity. Wet Conditions. |
| Sat | 11 | N | N | No RA activity. Wet Conditions. |

WEATHER:

| Day of Week | (LOW/HIGH) | Summary of Weather Conditions |
|-------------|------------|--|
| Sun | 5 | 32°/48°; NE wind 1mph/Gust 3mph; No Precipitation |
| Mon | 6 | 32°/47°; SSE wind 1mph/Gust 4mph; No Precipitation |
| Tue | 7 | 45°/51°; SSW wind 1mph/Gust 12mph; Precipitation (evening to midnight) 0.32" |
| Wed | 8 | 47°/55°; SSW wind 6mph/Gust 16mph; Precipitation (scattered) 2.7" |
| Thu | 9 | 44°/49°; SSW wind 5mph/Gust 12mph; Precipitation (scattered) 2.66" |
| Fri | 10 | 41°/48°; SSW wind 7mph/Gust 10mph; Precipitation (early morning) 0.2" |
| Sat | 11 | 39°/56°; SSW wind 1mph/Gust 9mph; Precipitation (afternoon till late eve.) 1.44" |

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/13/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2010-1212

Week of: 12/12 – 18, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|------------------------------------|------------------|---|---|--------------|---|--|
| Gates: | | | | | | |
| South (electric) | G | F | P | Y | N | Needs general maintenance (Lube/Alignment/Adjustment, etc) |
| Cooling Pond | G | F | P | Y | N | |
| Peninsula | G | F | P | Y | N | See Notes |
| 54 th Street (electric) | G | F | P | Y | N | |
| Signage: | | | | | | |
| Gates | G | F | P | Y | N | |
| Perimeter | G | F | P | Y | N | |
| Safety | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Public Streets: | | | | | | |
| Ruston Way | G | F | P | Y | N | |
| 51 st & Gallagher | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| BMPs: | | | | | | |
| Berms | G | F | P | Y | N | |
| Waddles | G | F | P | Y | N | |
| Silt Fence | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Strom drains clean: | | | | | | |
| Lower Site | G | F | P | Y | N | Maintained surface drainage from OCF to Pond |
| Stack Hill | G | F | P | Y | N | |
| Stockpiles: | | | | | | |
| Envirotac II | G | F | P | Y | N | |
| Plastic | G | F | P | Y | N | |
| Packed | G | F | P | Y | N | |
| Grass | G | F | P | Y | N | |
| Dust: | | | | | | Wet soil conditions |
| Traffic areas | G | F | P | Y | N | |
| Excavation area | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Fencing: | | | | | | |
| Site Perimeter | G | F | P | Y | N | |
| Zone Separation | G | F | P | Y | N | Maintaining outer Exclusion perimeter (preventing access to inner clean areas) |
| (Other) | G | F | P | Y | N | |
| Cameras: | | | | | | |
| Stack Hill | G | F | P | Y | N | |
| Lower Site | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1212
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|-----------------------------------|------------------|---|---|--------------|---|--------------------------------|
| Health & Safety Plans: | | | | | | Preparing response to comments |
| Site Superintendant | G | F | P | Y | N | |
| Construction Super. | G | F | P | Y | N | |
| Other | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: Weather: About 4" rain between Sun, Mon & Tues accompanied by strong winds.

Docks: (Category previously deleted); NOTE: Work completed & contractor totally de-mobilized by Friday.

Gates: Sunday mudslide blocked Yacht Club Rd. Site personnel escorted authorized members & guests in vehicles from 54th St. gate to Yacht Club gate via clean haul road along OCF to N. Outfall, then along shoreline to yacht club. Gates remained closed when not attended. Yacht Club Rd. reopened Mon. afternoon & thru-site access was terminated.

Cooling Pond: Pump clogged with mud from pond embankment due to heavy rains. Used gas pump to lower water level, unclog and relocate electric pump.

Air Monitoring:

| Day of Week | Hi-Vol Y/N | Personal Y/N | Air Monitoring Notes |
|-------------|------------|--------------|---------------------------------|
| Sun 12 | N | N | No RA activity. Wet Conditions. |
| Mon 13 | N | N | No RA activity. Wet Conditions. |
| Tue 14 | N | N | No RA activity. Wet Conditions. |
| Wed 15 | N | N | No RA activity. Wet Conditions. |
| Thu 16 | N | N | No RA activity. Wet Conditions. |
| Fri 17 | N | N | No RA activity. Wet Conditions. |
| Sat 18 | N | N | No RA activity. Wet Conditions. |

WEATHER:

| Day of Week | (LOW/HIGH) | Summary of Weather Conditions |
|-------------|---|-------------------------------|
| Sun 12 | 53°/57°; SSW wind 9mph/Gust 11mph; Precipitation (scattered) 2.19" | |
| Mon 13 | 49°/56°; South wind 2mph/Gust 12mph; Precipitation (early morning & evening) 0.9" | |
| Tue 14 | 39°/50°; SSW wind 7mph/Gust 15mph; Precipitation (morning) 0.96" | |
| Wed 15 | 38°/47°; South wind 4mph/Gust 7mph; Precipitation (late evening) 0.08" | |
| Thu 16 | 37°/45°; South wind 0mph/Gust 0mph; No Precipitation | |
| Fri 17 | 32°/46°; NE wind 0mph/Gust 4mph; No Precipitation | |
| Sat 18 | 37°/49°; SE wind 2mph/Gust 10mph; Precipitation (morning) 0.36" | |

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/22/12/20/2010

SIGNED: _____

[Signature]
Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2010-1219

Week of: 12/19 – 25, 2010

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|------------------------------------|------------------|---|---|--------------|---|--|
| Gates: | | | | | | |
| South (electric) | G | F | P | Y | N | Still some squeaks. Needs general maintenance. |
| Cooling Pond | G | F | P | Y | N | |
| Peninsula | G | F | P | Y | N | |
| 54 th Street (electric) | G | F | P | Y | N | |
| Signage: | | | | | | |
| Gates | G | F | P | Y | N | |
| Perimeter | G | F | P | Y | N | |
| Safety | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Public Streets: | | | | | | |
| Ruston Way | G | F | P | Y | N | |
| 51 st & Gallagher | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| BMPs: | | | | | | |
| Berms | G | F | P | Y | N | |
| Waddles | G | F | P | Y | N | |
| Silt Fence | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | See Notes |
| Strom drains clean: | | | | | | |
| Lower Site | G | F | P | Y | N | |
| Stack Hill | G | F | P | Y | N | |
| Stockpiles: | | | | | | |
| Envirotac II | G | F | P | Y | N | |
| Plastic | G | F | P | Y | N | |
| Packed | G | F | P | Y | N | |
| Grass | G | F | P | Y | N | |
| Dust: | | | | | | Wet soil conditions |
| Traffic areas | G | F | P | Y | N | |
| Excavation area | G | F | P | Y | N | |
| (Other) | G | F | P | Y | N | |
| Fencing: | | | | | | |
| Site Perimeter | G | F | P | Y | N | |
| Zone Separation | G | F | P | Y | N | Maintaining outer Exclusion perimeter (preventing access to inner clean areas) |
| (Other) | G | F | P | Y | N | |
| Cameras: | | | | | | |
| Stack Hill | G | F | P | Y | N | |
| Lower Site | G | F | P | Y | N | |

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2010-1219
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

| INSPECTION AREA | OVERAL CONDITION | | | NEED REPAIR? | | COMMENTS/OBSERVATIONS |
|---|------------------|---|---|--------------|---|--------------------------------------|
| Health & Safety Plans: Site Superintendant Construction Super. Other | | | | | | |
| | G | F | P | Y | N | Preparing response to comments |
| | G | F | P | Y | N | |
| | G | F | P | Y | N | Revising Appendix G (Air Monitoring) |

G=Good F=Fair P=Poor Y=Yes N=No

| |
|--|
| Misc. notes: |
| BMP's: High winds buckled a section of swale liner near viewpoint on Stack Hill. Needs maintenance. |
| |
| |
| |

Air Monitoring:

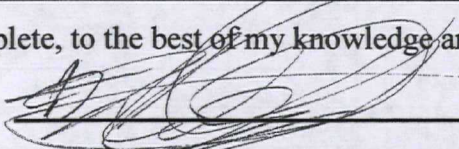
| Day of Week | Hi-Vol Y/N | Personal Y/N | Air Monitoring Notes |
|-------------|------------|--------------|---|
| Sun 19 | N | N | No RA activity. Wet Conditions. |
| Mon 20 | N | N | No RA activity. Wet Conditions. |
| Tue 21 | N | N | No RA activity. Wet Conditions. |
| Wed 22 | N | N | No RA activity. Wet Conditions. |
| Thu 23 | N | N | No RA activity. Wet Conditions. |
| Fri 24 | N | N | No RA activity. Wet Conditions. Hi-Vols calibrated per CHSP/CP Appendix G |
| Sat 25 | N | N | No RA activity. Wet Conditions. |

WEATHER:

| Day of Week | (LOW/HIGH) | Summary of Weather Conditions |
|-------------|---|-------------------------------|
| Sun 19 | 34°/45°; ENE wind 1mph/Gust 5mph; Precipitation (late evening) 0.2" | |
| Mon 20 | 36°/44°; SSW wind 0mph/Gust 3mph; Precipitation (early morning) 0.04" | |
| Tue 21 | 38°/49°; ESE wind 0mph/Gust 4mph; No Precipitation | |
| Wed 22 | 40°/50°; SW wind 1mph/Gust 6mph; No Precipitation | |
| Thu 23 | °39/48°; S wind 0.5mph/Gust 8.7mph(am), N wind 0mph(pm); Precipitation (12:30-18:30) .24" | |
| Fri 24 | °43/50°; SSE wind 0mph/Gust 4mph (12:00 & 21:00); Precipitation (late evening) .22" | |
| Sat 25 | °44/50°; SSW wind 0.9mph/Gust 11.2mph(21:00-22:00); Precipitation (early AM .18" & late PM .16") .34" | |

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 12/27/2010

SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer